Sixteenth Marcel Grossmann Meeting



Contribution ID: 458

Type: Invited talk in the parallel session

On recent developments in the theory of dissipative relativistic fluids

Monday, 5 July 2021 18:50 (20 minutes)

My goal in this talk is to address some of the fundamental mathematical questions in the field of relativistic dissipative fluid dynamics. This is an area that has witnessed progress within the physics community but for which many foundational mathematical questions remain open. Some of these problems, such as the study of causality, local well-posedness and breakdown of solutions, are crucial for for establishing solid theoretical foundations for the understanding of the quark-gluon plasma, a state of matter found in the very early universe. The talk is based on joint work with J. Noronha, F. Bemfica, M. Disconzi and M. Radosz.

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Session Classification: Mathematical Problems of Relativistic Physics: Classical and Quantum

Track Classification: Alternative Theories: Mathematical Problems of Relativistic Physics: Classical and Quantum